

10/018469

531 Rec'd PCT/

19 DEC 2001

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Patrick ALEXANDRE, Pierre BRUNET,
Brigitte CAGNON, Claude MIKLER

Application No.: U.S. National Stage
of PCT/FR00/01848

Filed: December 19, 2001

Docket No.: 111504

For: NEEDLELESS SYRINGE OPERATING WITH A DEVICE GENERATING A SHOCK
WAVE THROUGH A WALL

PRELIMINARY AMENDMENT

Director of the U.S. Patent and Trademark Office
Washington, D. C. 20231

Sir:

Prior to initial examination, and after entry of the annexes to the IPER, please amend
the above-identified application as follows:

IN THE CLAIMS:

Please replace claims 3, and 5-9 as follows:

3. (Amended) The needleless syringe as claimed in claim 1, characterized in that the
shock wave generator device (3) produces a plane shock wave on the upstream face (5) of the
fixed barrier (4).

5. (Amended) The needleless syringe as claimed in claim 1, characterized in that each
cavity (7) has a form of revolution about an axis parallel to the direction of propagation of the
shock wave.

6. (Amended) The needleless syringe as claimed in claim 1, characterized in that a
plurality of cavities are distributed on the downstream face (6) of said barrier (4).